

CLAIMS

1. An information recording device comprising a controller that adjusts recording
5 conditions including a bit rate of time series data when recording a content in an information recording medium, wherein the controller includes
an index information group creating unit that creates a time sequence index information group in which
10 index information items extracted from the time series data for locating particular points of the content are arranged in time sequence of the time series data, and a reverse time sequence index information group in which the index information items are arranged in reverse time
15 sequence of the time series data; and
an index information group recording unit that records the time sequence index information group and the reverse time sequence index information group created by the index information group creating unit
20 into an area of the information recording medium different from an area where the time series data are recorded.

2. The information recording device as
25 claimed in claim 1, wherein the index information group

creating unit acquires, as the index information items,
a plurality of image data items representing a plurality
of images that are extracted from the time series data
every predetermined time.

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3. The information recording device as
claimed in claim 1, wherein when the content recorded in
the form of the time series data is reproduced, the
index information group creating unit extracts, as the
10 index information items, a plurality of image data items
representing a plurality of images that are selected,
according to a predetermined instruction, from images
that change with time.

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4. The information recording device as
claimed in claim 1, wherein the index information group
recording unit records the time sequence index
information group and the reverse time sequence index
information group into an area adjacent to the area
20 where the time series data are recorded.

5. The information recording device as
claimed in claim 1, wherein the index information group
recording unit records the time sequence index
25 information group and the reverse time sequence index

information group into an area adjacent to a Lead-In area or a Lead-Out area of the information recording medium.

5 6. The information recording device as claimed in claim 1, wherein the index information group recording unit records the time sequence index information group and the reverse time sequence index information group into a predetermined area of another
10 information recording medium different from the information recording medium in which the time series data are recorded.

 7. An information recording medium in which
15 a content in the form of time series data is recorded, comprising:

 a first area in which the time series data are recorded; and

 a second area in which a time sequence index
20 information group and a reverse time sequence index information group are recorded, the time sequence index information group containing index information items, which are extracted from the time series data for locating particular points of the content, arranged in
25 time sequence of the time series data, the reverse time

sequence index information group containing the index information items arranged in reverse time sequence of the time series data.

5 8. The information recording medium as claimed in claim 7, wherein the first area and the second area are adjacent to each other.

 9. The information recording medium,
10 wherein the second area is adjacent to a Lead-In area located at the top of a recording area where predetermined data containing the time series data are recorded or a Lead-Out area located at the end of the recording area.

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 10. An information recording method that records a content in the form of time series data in an information recording medium and reproduces particular points of the content, comprising:

20 an index information group creating step of creating a time sequence index information group in which index information items extracted from the time series data for locating the particular points of the content are arranged in time sequence of the time series
25 data, and a reverse time sequence index information

group in which the index information items are arranged in reverse time sequence of the time series data; and

an index information group recording step of recording the time sequence index information group and
5 the reverse time sequence index information group created in the index information group creating step into an area of the information recording medium different from an area where the time series data are recorded.

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11. The information recording method as claimed in claim 10, further comprising:

an index information acquiring step of acquiring, as the index information items, a plurality
15 of image data items representing a plurality of images that are extracted from the time series data every predetermined time.

12. The information recording method as
20 claimed in claim 10, further comprising:

an index information extracting step of reproducing the content recorded in the form of the time series data, and extracting, as the index information items, a plurality of image data items representing a
25 plurality of images that are selected, according to a

predetermined instruction, from images that change with time.

13. The information recording method as
5 claimed in claim 10,

wherein, in the index information group
creating step, the index information items are acquired
every time the time series data are recorded in the
information recording medium so as to create the index
10 information groups; and

in the index information group recording step,
the index information groups are recorded when creation
of the index information groups is completed in the
index information group creating step.

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14. The information recording method as
claimed in claim 13, wherein, in the index information
group recording step, the index information groups are
recorded in a predetermined area of another information
20 recording medium different from the information
recording medium in which the time series data are
recorded.